

FINAL PROGRAM

**25-27**

**APRIL 2022**

**VIRTUAL EVENT**

**4<sup>TH</sup> EDITION OF**

**WORLD**

**NANOTECHNOLOGY**

**CONFERENCE**

**Contact us:**

Ph: +1 (702) 988-2320

Email: [nanotechnology@magnusconference.com](mailto:nanotechnology@magnusconference.com)

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# DAY 01

## MONDAY, APRIL 25

Moderator: Elena Lagreca, University of Naples Federico II, Italy

### KEYNOTE PRESENTATIONS

GMT Timings	Local Timings	
09:30 - 10:00		AV Check
10:00 - 10:10		Introduction
10:10-10:50	12:10-12:50	<b>Petra Perner, FutureLab Artificial Intelligence IBal-2, Germany</b> Title: Using signal- and image-interpreting methods to control the production and the quality of nanomaterials
10:50-11:30	13:50-14:30	<b>Mindaugas Macernis, Vilnius University, Lithuania</b> Title: Modeling excited states and raman spectra for carotenoid and their complexes using high performance parallel codes

### ORAL PRESENTATIONS

11:30-11:50	21:30-21:50	<b>Xing Wu, Commonwealth Scientific and Industrial Research Organisation (CSIRO), Australia</b> Title: High-performance forward osmosis membranes achieved by incorporating two-dimensional nanomaterials
11:50-12:10	19:50-20:10	<b>Getachew Feyissa Gemedo, National Taiwan University of Science and Technology, Taiwan</b> Title: Heterojunction of zinc oxides of nanowires, and nanoparticles for dye synthesis solar cell
12:10-12:30	20:10-20:30	<b>Safayet Ahmed, The Hong Kong Polytechnic University, Hong Kong</b> Title: Two-dimensional gallium sulfide as a novel saturable absorber for broadband ultrafast photonics application
12:30-12:50	20:30-20:50	<b>Mohammad Al Mamun, University of Malaya, Malaysia</b> Title: Synthesis, characterization and applications of NIVHCS LSC of GO from waste pencil leads (WPL)
12:50-13:10	20:50-21:10	<b>Flora Maitim Yrad, Silliman University, Philippines</b> Title: Modified synthesis of dextrin-capped gold nanoparticles and its chemistry
13:10-13:30	18:40-19:00	<b>Subas Chandra Dinda, Teerthanker Mahaveer Universit, India</b> Title: Nanotheranostics in drug targeting
13:30-13:50	19:00-19:20	<b>Cunadhor S. Okram, UGC-DAE Consortium for Scientific Research, India</b> Title: Harvesting electricity using nanostructures

13:50-14:10	19:20-19:40	<b>Ajith M P, Jawaharlal Nehru University, India</b> Title: CD@MS: An excellent adsorbent for the removal of aqueous Ni <sup>2+</sup>
14:10-14:30	19:40-20:00	<b>Chandra Mohan, SBAS, K. R. Mangalam University, India</b> Title: A green approach of catalysis: Silicomolybdic acid modified montmorillonite clay for organic synthesis
14:30-14:50	20:00-20:20	<b>Raghvendra Kumar Mishra, Amity Institute of Biotechnology, India</b> Title: Callus mediated green synthesis of nanoparticles under controlled conditions and their antimicrobial activities
14:50-15:10	18:50-19:10	<b>Lamya M. Al Farsi, Sultan Qaboos University, Oman</b> Title: Aluminum-doped zinc oxide nanorods: Challenges and solutions

Moderator: Concetta Di Natale, University of Naples Federico II, Italy

## KEYNOTE PRESENTATIONS

15:10-16:10	08:10-09:10	<b>Alexander G. Ramm, Kansas State University, USA</b> Title: Wave scattering by many small particles and applications
16:10-16:50	12:10-12:50	<b>Raymond Compton Jagessar, University of Guyana, Guyana</b> Title: Nanotechnology and its pursuit, in the treatment of COVID-19

## ORAL PRESENTATIONS

16:50-17:10	19:50-20:10	<b>Mauliady Satria, King Fahd University of Petroleum and Minerals (KFUPM), Saudi Arabia</b> Title: Facile preparation of the superhydrophobic/superoleophilic polydopamine coated- polyurethane sponge by incorporating functionalized graphene oxide for efficient oil/water separation
17:10-17:30	20:10-20:30	<b>Mert Saraco Glu, Istanbul Technical University, Turkey</b> Title: Nano-structured Fe <sub>3</sub> O <sub>4</sub> (Magnetite) powder synthesis using co-precipitation method for bio-separation applications
17:30-17:50	19:30-19:50	<b>Elena Lagreca, University of Naples Federico II, Italy</b> Title: Development and thermodynamically characterization of Food Grade secondary oil in water nanoemulsions and in vitro validation through digestion simulation and muco-adhesion evaluation by intestine on chip and INFOGEST protocol
17:50-18:10	20:50-21:10	<b>Dror Malka, Holon Institute of Technology (HIT), Israel</b> Title: Three channel demultiplexer using gallium nitride angled MMI structures
18:10-18:30	20:10-20:30	<b>Concetta Di Natale, University of Naples Federico II, Italy</b> Title: Cell membrane-coated oil in water nano-emulsions as biomimetic nanocarriers for lipophilic compounds conveyance
18:30-18:50	14:30-14:50	<b>Raymond Compton Jagessar, University of Guyana, Guyana</b> Title: Nanotechnology and Nanomaterials

**Regina Maria Chiechio, CNRS Université de Rennes 1, France**

18:50-19:10    20:50-21:10    Title: Luminescent gold nanoclusters interacting with synthetic and biological vesicles

**Bongiwe Dhlamini, North-West University, South Africa**

19:10-19:30    21:10-21:30    Title: Nano-engineered metal-based nutrients using chitosan for efficient plant nutrition and growth

**Hugues Kamdem Paumo, North-West University, South Africa**

19:30-19:50    21:30-21:50    Title: In situ development of silver nanocatalysts at chitosan-functionalised graphene oxide for conversion of 2, 4-dinitrophenol in water

# DAY 02

## TUESDAY, APRIL 26

Moderator: Shivani Dhall, D.A.V. college, India

### KEYNOTE PRESENTATIONS

GMT Timings	Local Timings	
09:30 - 10:00		<b>AV Check</b>
10:00-10:40	12:00-12:40	<b>Maros Halama, Technical University of Kosice, Slovakia</b> Title: Thermodynamic and corrosion properties of metallic nanobjects and application of quantum chemical calculations in management of experiments in lab scale
10:40-11:20	16:10-16:50	<b>Purushottam Chakraborty, Saha Institute of Nuclear Physics, India</b> Title: Alkali-based molecular-ion sims: An innovative chemical approach for the exact composition analysis of quantum structures

### POSTER PRESENTATIONS

11:20-11:30	14:20-14:30	<b>Sergey G. Lebedev, Institute for Nuclear Research RAS, Russian Federation</b> Title: Contemplation about superconducting correlations in nanographite films
11:30-11:40	14:30-14:40	<b>Junaid Alam, National University of Science and Technology MISIS, Russia</b> Title: Excellent soft magnetic properties in co-based alloys after heat treatment at temperatures near the crystallization onset
11:40-11:50	14:40-14:50	<b>Nina Ivanova, Institute of dermatology and venerology of National Medical Science of Ukraine, Ukraine</b> Title: Negatively charged liposomes in the treatment of Alzheimer's disease
11:50-12:00	14:50-15:00	<b>Mariya Aleksandrova, Technical University of Sofia, Bulgaria</b> Title: Texturing of nanocoatings for surface acoustic wave based precise sensors
12:00-12:10	17:00-17:10	<b>Rehana Badar, Superior University, Pakistan</b> Title: Green synthesis, characterization and wound healing potential of silver nanoparticles
12:10-12:20	20:10-20:20	<b>Ahmed Mortuza Saleque, The Hong Kong Polytechnic University, Hong Kong</b> Title: Solar driven interfacial steam generation derived from biodegradable luffa sponge for efficient and cost-effect water purification

### KEYNOTE PRESENTATIONS

12:20-13:00	08:20-09:00	<b>Ramesh K. Agarwal, Washington University in St. Louis, USA</b> Title: Environmentally responsible sustainable 'Green' nanocomposites
13:00-13:40	08:00-08:40	<b>Kyoungtae Kim, Missouri State University, USA</b> Title: Cadmium selenide zinc sulfide quantum dots on saccharomyces cerevisiae: Their traffic routes and impact on endocytosis and exocytosis as well as on actin dynamics

## ORAL PRESENTATIONS

13:40-14:00	21:40-22:00	<b>Fei Teng, Harbin Institute of Technology, China</b> Title: The potential application of EUG/NR composite with enhanced mechanical and tribological properties in aircraft
14:00-14:20	19:30-19:50	<b>Boggarapu Nageswara Rao, Koneru Lakshmaiah Education Foundation, India</b> Title: Design of experiments to specify the optimal process parameters in nanopowder-mixed EDM of IN800 with coated electrodes
14:20-14:40	16:20-16:50	<b>Thomas Justel, FH Münster-University of Applied Sciences, Germany</b> Title: Rare earth doped LuPO <sub>4</sub> nanoparticles for multimodal medical applications
14:40-15:00	20:10-20:30	<b>Anshuman Srivastava, SIET Prayagraj, India</b> Title: Polymer/Ceramic Composites a novel material for high K applications
15:00-15:20	20:30-20:50	<b>Shivani Dhall, D.A.V. college, India</b> Title: Role of electron beam-Induced deposition (EBID) technique in joining of broken carbon materials
15:20-15:40	20:50-21:10	<b>D. Nagasamy Venkatesh, JSS College of Pharmacy, India</b> Title: Atazanavir loaded nano structured lipid carriers: Preparation and characterisation
15:40-16:00	21:10-21:30	<b>Arun Kumar Singh, Guru Ghasidas Vishwavidyalaya, India</b> Title: Field effect transistors based on two-dimensional materials
16:00-16:20	19:00-19:20	<b>Igor Melnyk, National technical University of Ukraine, Ukraine</b> Title: Estimation of discharge arc current density in the technology of obtaining ceramic nanocoatings with activation of metal vapor during electron-beam evaporation
16:20-16:40	12:20-12:40	<b>Rosalind Volpe, Silver Nanotechnology Working Group, USA</b> Title: Road to registration – Nanosilver -10 years later
16:40-17:00	18:40-19:00	<b>Mohamed Elmahi Mohamed Ahmed, University of Messina, Italy</b> Title: Structural and optical properties of ZnO nano-powder synthesized by combustion and sol-gel method
17:00-17:20	19:00-19:20	<b>Lucia Catucci, University of Bari, Italy</b> Title: Polymer-modified liposomes as nanocarrier for oral delivery of natural active molecules
17:20-17:40	20:20-20:40	<b>Mohammad Arshad, Shaqra University, Saudi Arabia</b> Title: Synthesis, characterization, and biological screening of conducting copolymers and their nanocomposites
17:40-18:00	19:40-20:00	<b>Laura Mais, University of Cagliari, Italy</b> Title: Catalysis of ORR in nano-structured Mn oxides based-electrodes for microbial fuel cells
18:00-18:20	21:00-21:20	<b>Bekir Fatih Kahraman, Zonguldak Bulent Ecevit University, Turkey</b> Title: A research on process parameters of heavy metal immobilization using nano zero-valent iron (nZVI) in contaminated soils

18:20-18:40	19:20-19:40	<b>Souhail Dhouib, University of Sfax, Tunisia</b> Title: New Optimization Concept for Combinatorial Problems: The dhouib-matrix
18:40-19:00	19:40-19:20	<b>Diogo M.F. Santos, Instituto Superior Técnico, Lisboa, Portugal</b> Title: Pt-M (M=Ni,Fe,Cu) alloys supported on graphene nanoplatelets as bifunctional electrocatalysts for ORR/OER
19:00-19:20	20:00-20:20	<b>Ngnintedem Yonti Cedrik, University of Yaounde I, Cameroon</b> Title: Green synthesis using palm kernel oil of Fe-doped Co <sub>3</sub> O <sub>4</sub> nanoparticles and structural characterization
19:20-19:40	21:20-21:40	<b>Magdalena Gorska Ponikowska, Medical University of Gdansk, Poland</b> Title: Nanotechnology as a sophisticated tool for cosmetic industry and medicine
19:40-20:00	23:40-00:00	<b>Turkiya Mohammed Habib Al Shahumi, Sultan Qaboos University, Oman</b> Title: Synthesis, structure, morphology, magnetic and magnetocaloric-effect studies of (La <sub>1-x</sub> Pr <sub>x</sub> ) <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> nanoparticles perovskites

# DAY 03

## WEDNESDAY, APRIL 27

Moderator: Rosa Penalver Soler, University of Murcia, Spain

### KEYNOTE PRESENTATIONS

GMT Timings	Local Timings	
09:30 - 10:00		<b>AV Check</b>
10:00-10:40	18:00-18:40	<b>Vladimir G. Chigrinov, Hong Kong University of Science and Technology, Hong Kong</b> Title: Liquid crystal photoaligned by azodye nano layers: Physics and applications in displays and photonics
10:40-11:20	11:40-12:20	<b>Simplice Koudjina, National University of Sciences, Technology, Engineering and Mathematics (UNSTIM), Benin</b> Title: Fingerprints of chiral/helical nanostructures applied to functionalized helicenes for chiral waveguides
11:20-11:50	14:20-14:50	<b>Sergey Suchkov, Institute for Global Health, MGUPP, Russia</b> Title: Personalized and precision medicine (ppm) as a unique healthcare model to be set up via biodesign, bio- and chemical engineering, translational applications, and upgraded business modeling to secure the human healthcare, wellness and biosafety

### ORAL PRESENTATIONS

11:50-12:10	19:50-20:10	<b>M. A. Motalib Hossain, University of Malaya, Malaysia</b> Title: Nanocomposite-based DNA-biosensor to detect animal species in food
12:10-12:30	20:10-20:30	<b>Hao Wu, Shandong University, China</b> Title: Kinetics regulation enables novel nanostructured materials for water electrolysis
12:30-12:50	15:30-15:50	<b>Vitaliy Grudtsov, Scientific-Manufacturing Complex Technological Centre, Russia</b> Title: Optimization of ISFET structure formation technology for use in biochemical analysis systems
12:50-13:10	18:20-18:40	<b>Chandana Rath, Indian Institute of Technology (BHU), India</b> Title: Hydrothermally synthesized novel delta-MnO <sub>2</sub> nanowhiskers: Microstructure and magnetic properties
13:10-13:30	16:10-16:30	<b>Bashir M. Jarrar, Jerash university, Jordan</b> Title: On the toxicity of copper oxide nanoparticles
13:30-13:50	19:00-19:20	<b>Sanjib Bahadur, Himalayan Pharmacy Institute, India</b> Title: Delivery of drugs to brain through nasal route



13:50-14:10	19:20-19:40	<b>Pragya Baghel, Columbia Institute of Pharmacy, India</b> Title: Self-emulsification systems – A nanotransforming of poor aqueous solubility towards enhanced bioavailability of drugs
14:10-14:30	19:40-20:00	<b>D. Nagasamy Venkatesh, JSS College of Pharmacy, India</b> Title: Formulation and characterization of trihexyphenidyl hydro chloride loaded solid lipid nanoparticles
14:30-14:50	20:00-20:20	<b>Sharda Sundaram Sanjay, Ewing Christian College, India</b> Title: Surface functionalization : A key factor for the synthesis of nanomaterials for applicatory purposes
14:50-15:10	20:20-20:40	<b>Mohammad Owais, Aligarh Muslim University Aligarh, India</b> Title: Potential of siRNA-bearing nanoparticles in the treatment of hepatocellular carcinoma in the model animals
<b>Moderator: Salim Erol, Eskisehir Osmangazi University, Turkey</b>		
15:10-15:30	17:10-17:30	<b>Rosa Penalver Soler, University of Murcia, Spain</b> Title: Novel analytical methodology for the determination of micro and nano polystyrene particles in air
15:30-15:50	17:30-17:50	<b>Martina Cotena, Aix Marseille Universite, France</b> Title: Co-exposure and effects of nanomaterials and organic pollutants on the reproductive toxicity of mammal gametes and freshwater organisms
15:50-16:10	18:50-19:10	<b>Salim Erol, Eskisehir Osmangazi University, Turkey</b> Title: Accurate calculation of nano scale oxide layer thickness of titanium alloys by electrochemical impedance equivalent circuit modeling
16:10-16:30	21:10-21:30	<b>Zafar Iqbal, Sarhad University Peshawar, Pakistan</b> Title: Preparation of surface modified polymeric nanoparticles of doxorubicin
16:30-16:50	11:30-11:50	<b>Luz Maria Rivera Rivera, Glasst Innovation Company, Colombia</b> Title: Nanostructured materials for thermal insulation paint
16:50-17:10	17:50-18:10	<b>Eva Pinho, INIAV, I.P - National Institute for Agrarian and Veterinarian Research, Portugal</b> Title: Nanotechnology and the controlled release of natural antimicrobials
17:10-17:30	19:10-19:30	<b>Salvatore Petralia, University of Catania, Italy</b> Title: Photothermal-responsive nanostructured materials for biomedical applications
17:30-17:50	20:30-20:50	<b>Fadi Ibrahim, Al-Shujaa-bin-Al-Aslam School, Kuwait</b> Title: Synthesis of novel virus-like mesoporous Silica-ZnO-Ag nanoparticles and quercetin synergize with NIR laser for covid-19 Infectious diseases treatment
17:50-18:10	20:50-21:10	<b>Jasim Mohammed Salman, Iraq University College, Iraq</b> Title: Preparation of nano adsorbent derivative from date palm fronds for the removal of pollutants from aqueous solutions
18:10-18:30	21:10-21:30	<b>Katerina Emilova Lazarova, Bulgarian Academy of Sciences, Bulgaria</b> Title: Coal fly ashes zeolites as a foundation towards functional nanocomposites

**Dibyendu Mondal, Institute of Plant Genetics of the Polish Academy of Sciences (IPG PAS), Poland**

18:30-18:50 20:30-20:50

Title: Strategies for enhanced protein nano-engineering with improved stability and activity

**Ayat F. Hashim, National Research Centre, Egypt**

18:50-19:10 20:50-21:10

Title: Antioxidant and antibacterial activities of omega-3 rich oils/curcumin nanoemulsions loaded in chitosan and alginate-based microbeads

**Bahareh Khezri, University of Chemistry and Technology, Czech Republic**

19:10-19:30 21:10-21:30

Title: 2D-based nano/microswimmers: Towards biomedical and environmental applications

**Kanchan Chauhan, Universidad Nacional Autonoma de Mexico, Mexico**

19:30-19:50 14:30-14:50

Title: Biocatalytic nanoreactors as smart biomedicine

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+1 (702) 988-2320

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